

RETRACTABLE AND DEPLOYABLE PANEL

ABSTRACT OF THE DISCLOSURE

[00116] A system for the retraction and deployment of a panel is disclosed having a first planar surface beneath which is disposed a support structure; a panel; and an opening disposed in the first planar section which is configured to receive the panel into a closed position disposed in the opening and substantially co-planar with the first planar surface. Also provided is at least one slider assembly, comprising a stationary component and a sliding component, the stationary component coupled to the support structure and disposed at a sloping angle, the sliding component coupled to the panel at a hinge point such that the panel is rotatable between a co-planar closed position angle and the sloping angle, and when the sliding component is fully extended is slidable on the slider assembly at the sloping angle to a stowed position. According to this embodiment the panel is movable between the stowed position wherein the panel is pitched at a stowed position angle equal to the sloping angle and the closed position by lifting the panel from either position, rotating the panel to match the angle of the other position, and lowering the panel into the other position.